

SOCIAL FORAGING



Social Foraging Theory

**Tobias Kalenscher, Marijn Van
Wingerden**



Social Foraging Theory:

Social Foraging Theory Luc-Alain Giraldeau, Thomas Caraco, 2018-06-05 Although there is extensive literature in the field of behavioral ecology that attempts to explain foraging of individuals social foraging the ways in which animals search and compete for food in groups has been relatively neglected This book redresses that situation by providing both a synthesis of the existing literature and a new theory of social foraging Giraldeau and Caraco develop models informed by game theory that offer a new framework for analysis Social Foraging Theory contains the most comprehensive theoretical approach to its subject coupled with quantitative methods that will underpin future work in the field The new models and approaches that are outlined here will encourage new research directions and applications To date the analysis of social foraging has lacked unifying themes clear recognition of the problems inherent in the study of social foraging and consistent interaction between theory and experiments This book identifies social foraging as an economic interaction between the actions of individuals and those of other foragers This interdependence raises complex questions about the size of foraging groups the diversity of resources used and the propensity of group members to exploit each other or forage cooperatively The models developed in the book will allow researchers to test their own approaches and predictions Many years in development Social Foraging Theory will interest researchers and graduate students in such areas as behavioral ecology population ecology evolutionary biology and wildlife management

Social Foraging Theory Luc-Alain Giraldeau, Thomas Caraco, 2000 Although there is extensive literature in the field of behavioral ecology that attempts to explain foraging of individuals social foraging the ways in which animals search and compete for food in groups has been relatively neglected This book redresses that situation by providing both a synthesis of the existing literature and a new theory of social foraging Giraldeau and Caraco develop models informed by game theory that offer a new framework for analysis Social Foraging Theory contains the most comprehensive theoretical approach to its subject coupled with quantitative methods that will underpin future work in the field The new models and approaches that are outlined here will encourage new research directions and applications To date the analysis of social foraging has lacked unifying themes clear recognition of the problems inherent in the study of social foraging and consistent interaction between theory and experiments This book identifies social foraging as an economic interaction between the actions of individuals and those of other foragers This interdependence raises complex questions about the size of foraging groups the diversity of resources used and the propensity of group members to exploit each other or forage cooperatively The models developed in the book will allow researchers to test their own approaches and predictions Many years in development Social Foraging Theory will interest researchers and graduate students in such areas as behavioral ecology population ecology evolutionary biology and wildlife management

Information Foraging Theory: Adaptive Interaction with Information Peter Pirolli, 2007-04-12 Although much of the hubris and hyperbole surrounding the 1990 s Internet has softened to a reasonable level the inexorable momentum of information growth continues unabated This wealth

of information provides resources for adapting to the problems posed by our increasingly complex world but the simple availability of more information does not guarantee its successful transformation into valuable knowledge that shapes guides and improves our activity When faced with something like the analysis of sense making behavior on the web traditional research models tell us a lot about learning and performance with browser operations but very little about how people will actively navigate and search through information structures what information they will choose to consume and what conceptual models they will induce about the landscape of cyberspace Thus it is fortunate that a new field of research Adaptive Information Interaction AII is becoming possible AII centers on the problems of understanding and improving human information interaction It is about how people will best shape themselves to their information environments and how information environments can best be shaped to people Its roots lie in human computer interaction HCI information retrieval and the behavioral and social sciences This book is about Information Foraging Theory IFT a new theory in Adaptive Information Interaction that is one example of a recent flourish of theories in adaptationist psychology that draw upon evolutionary ecological theory in biology IFT assumes that people indeed all organisms are ecologically rational and that human information seeking mechanisms and strategies adapt the structure of the information environments in which they operate Its main aim is to create technology that is better shaped to users Information Foraging Theory will be of interest to student and professional researchers in HCI and cognitive psychology

Game Theory and Animal Behavior Lee Alan Dugatkin, Hudson Kern Reeve, 2000-03-23 Game theory has revolutionized the study of animal behavior The fundamental principle of evolutionary game theory that the strategy adopted by one individual depends on the strategies exhibited by others has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors In this volume the first since 1982 devoted to evolutionary game theory leading researchers describe applications of the theory to diverse types of behavior providing an overview of recent discoveries and a synthesis of current research The volume begins with a clear introduction to game theory and its explanatory scope This is followed by a series of chapters on the use of game theory to understand a range of behaviors social foraging cooperation animal contests communication reproductive skew and nepotism within groups sibling rivalry alternative life histories habitat selection trophic level interactions learning and human social behavior In addition the volume includes a discussion of the relations among game theory optimality and quantitative genetics and an assessment of the overall utility of game theory to the study of social behavior Presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory the book is intended for a wide audience of undergraduates graduate students and professional biologists pursuing the evolutionary analysis of animal behavior

Social Learning William Hoppitt, Kevin N. Laland, 2013-07-21 Many animals including humans acquire valuable skills and knowledge by copying others Scientists refer to this as social learning It is one of the most exciting and rapidly developing areas of behavioral research and sits at the interface of many academic disciplines including

biology experimental psychology economics and cognitive neuroscience Social Learning provides a comprehensive practical guide to the research methods of this important emerging field William Hoppitt and Kevin N Lala define the mechanisms thought to underlie social learning and demonstrate how to distinguish them experimentally in the laboratory They present techniques for detecting and quantifying social learning in nature including statistical modeling of the spatial distribution of behavior traits They also describe the latest theory and empirical findings on social learning strategies and introduce readers to mathematical methods and models used in the study of cultural evolution This book is an indispensable tool for researchers and an essential primer for students Provides a comprehensive practical guide to social learning research Combines theoretical and empirical approaches Describes techniques for the laboratory and the field Covers social learning mechanisms and strategies statistical modeling techniques for field data mathematical modeling of cultural evolution and more

Advances in the Study of Behavior H. Jane Brockmann, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, Chris Barnard, John Mitani, 2011-07-29 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward

Social-Behavioral Modeling for Complex Systems

Paul K. Davis, Angela O'Mahony, Jonathan Pfautz, 2019-04-09 This volume describes frontiers in social behavioral modeling for contexts as diverse as national security health and on line social gaming Recent scientific and technological advances have created exciting opportunities for such improvements However the book also identifies crucial scientific ethical and cultural challenges to be met if social behavioral modeling is to achieve its potential Doing so will require new methods data sources and technology The volume discusses these including those needed to achieve and maintain high standards of ethics and privacy The result should be a new generation of modeling that will advance science and separately aid decision making on major social and security related subjects despite the myriad uncertainties and complexities of social phenomena Intended to be relatively comprehensive in scope the volume balances theory driven data driven and hybrid approaches The latter may be rapidly iterative as when artificial intelligence methods are coupled with theory driven insights to build models that are sound comprehensible and usable in new situations With the intent of being a milestone document that sketches a research agenda for the next decade the volume draws on the wisdom ideas and suggestions of many noted researchers who draw in turn from anthropology communications complexity science computer science defense planning economics engineering health systems medicine neuroscience physics political science psychology public policy and sociology In brief the volume discusses Cutting edge challenges and opportunities in modeling for social and behavioral science Special requirements for achieving high standards of privacy and ethics New approaches for developing theory while exploiting both empirical and

computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems Encyclopedia of Animal Behavior ,2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

Collective Animal Behavior David J. T. Sumpter, 2010-10-17 The book combines traditional approaches to behavioral ecology with ideas about self organization and complex systems from physics and mathematics

Encyclopedia of Theoretical Ecology Dr. Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences

How Primates Eat Joanna E. Lambert, Margaret A. H. Bryer, Jessica M. Rothman, 2024-07-30 Exploring everything from nutrients to food acquisition and research methods a comprehensive synthesis of the study of diet and feeding in nonhuman primates What do we mean when we say that a diet is nutritious Why can some animals get all the energy they need from eating leaves while others would perish on such a diet Why don't mountain gorillas eat fruit all day as chimpanzees do Answers to these questions about food and feeding are among the many tasty morsels that emerge from this authoritative book Informed by the latest scientific tools and millions of hours of field and laboratory work on species across the primate order and around the globe this volume is an exhaustive synthesis of our understanding of what why and how primates eat State of the art information presented at physiological behavioral ecological and evolutionary scales will serve as a road map for graduate students researchers and practitioners as they work toward a holistic understanding of life as a primate and the urgent conservation consequences of diet and food availability in a changing world

Social Invertebrates as Models for Non-Kin Cooperation Floria M. K. Uy, Leticia Aviles, Miriam H. Richards, 2022-10-25

Social Predation Guy Beauchamp, 2013-12-07 The classic literature on predation dealt almost exclusively with solitary predators and their prey Going back to Lotka Volterra and optimal foraging theory the theory about predation including predator prey population dynamics was developed for solitary species Various consequences of sociality for predators have been considered only recently Similarly while it was long recognized that prey species can benefit from living in groups research on the adaptive value of sociality for prey species mostly emerged in the 1970s The main theme of this book is the various ways that predators and prey may benefit from living in groups The first part focusses on predators and explores how group membership influences predation success rate from searching to subduing prey The second part focusses on how prey in groups can detect and escape predators The final section explores group size and composition and how individuals respond over evolutionary times to the challenges posed by chasing or being chased by animals in groups This book will help the reader understand current issues in social

predation theory and provide a synthesis of the literature across a broad range of animal taxa Includes the whole taxonomical range rather than limiting it to a select few Features in depth analysis that allows a better understanding of many subtleties surrounding the issues related to social predation Presents both models and empirical results while covering the extensive predator and prey literature Contains extensive illustrations and separate boxes that cover more technical features i e to present models and review results

Encyclopedia of Ecology Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

The Theory of Ecology Samuel M. Scheiner, Michael R. Willig, 2011-06-15 Despite claims to the contrary the science of ecology has a long history of building theories Many ecological theories are mathematical computational or statistical though and rarely have attempts been made to organize or extrapolate these models into broader theories The Theory of Ecology brings together some of the most respected and creative theoretical ecologists of this era to advance a comprehensive conceptual articulation of ecological theories The contributors cover a wide range of topics from ecological niche theory to population dynamic theory to island biogeography theory Collectively the chapters ably demonstrate how theory in ecology accounts for observations about the natural world and how models provide predictive understandings It organizes these models into constitutive domains that highlight the strengths and weaknesses of ecological understanding This book is a milestone in ecological theory and is certain to motivate future empirical and theoretical work in one of the most exciting and active domains of the life sciences

Biomimicry for Optimization, Control, and Automation Kevin M. Passino, 2005-09-08 Biomimicry uses our scientific understanding of biological systems to exploit ideas from nature in order to construct some technology In this book we focus on how to use biomimicry of the functional operation of the hardware and software of biological systems for the development of optimization algorithms and feedback control systems that extend our capabilities to implement sophisticated levels of automation The primary focus is not on the modeling emulation or analysis of some biological system The focus is on using bio inspiration to inject new ideas

techniques and perspective into the engineering of complex automation systems There are many biological processes that at some level of abstraction can be represented as optimization processes many of which have as a basic purpose automatic control decision making or automation For instance at the level of everyday experience we can view the actions of a human operator of some process e.g. the driver of a car as being a series of the best choices he or she makes in trying to achieve some goal staying on the road emulation of this decision making process amounts to modeling a type of biological optimization and decision making process and implementation of the resulting algorithm results in human mimicry for automation There are clearer examples of biological optimization processes that are used for control and automation when you consider nonhuman biological or behavioral processes or the internal biology of the human and not the resulting external behavioral characteristics like driving a car For instance there are homeostasis processes where for instance temperature is regulated in the human body

Behavioral and neuroscientific analysis of economic decision making in animals Tobias Kalenscher, Marijn Van Wingerden, The experimental analysis of animal behavior has a rich tradition in psychology behavioral ecology and many other scientific branches dedicated to the study of decision making However it has never enjoyed a similar popularity in economics This has recently changed with the dawn of neuroeconomics a discipline combining the analytic and experimental tools of psychology and economics with the technologies available in neuroscience to unravel the neurobiological mechanisms underlying economic behavior Since many of the sophisticated neuroscientific techniques can only be used on animals neuroeconomists have come up with a large and ever growing repertoire of animal models to probe economic decision making Besides the value of using animals as model systems to emulate human economic behavior the discipline of animal economic decision making exists in its very own right an abundance of animal species at various evolutionary stages show behavior that complies with many of the predictions of economic theory whilst at the same time demonstrating violations of optimal choice models that are reminiscent of similar anomalies found in human behavior Hence the analysis of animal choice does not only offer insights into the evolutionary origins of economic decision making it also testifies that the analysis of animal behavior is a convenient economical and sound way to test competing economic decision models in optimally controlled experimental environments to probe their neural implementation and to yield common denominators in choice behavior In short economic theory provides more than just an alternative language to describe animal psychology its combination with biology psychology and neuroscience gives way to synergy effects that open up new venues for studying economic choice In this special issue we would like to gather the latest results from this cross disciplinary topic address the overlap and discrepancies in the neurobiology of economic decision making found between species and identify the challenges that lie ahead in translating results from species to species and ultimately to humans The exclusive focus on non human animals makes this Research Topic unique and distinct from previous special issues which covered a broader range of matters and subjects in the neurobiological analysis of decision making

Trends in Interactive Visualization Elena

Zudilova-Seinstra, Tony Adriaansen, Robert van Liere, 2008-12-17 II Challenges in Data Mapping Part II deals with one of the most challenging tasks in Interactive Visualization mapping and teasing out information from large complex datasets and generating visual representations This section consists of four chapters Binh Pham Alex Streit and Ross Brown provide a comprehensive requirement analysis of information uncertainty visualizations They examine the sources of uncertainty review aspects of its complexity introduce typical models of uncertainty and analyze major issues in visualization of uncertainty from various user and task perspectives Alfred Inselberg examines challenges in the multivariate data analysis He explains how relations among multiple variables can be mapped uniquely into space subsets having geometrical properties and introduces Parallel Coordinates methodology for the unambiguous visualization and exploration of a multidimensional geometry and multivariate relations Christiaan Gribble describes two alternative approaches to interactive particle visualization one targeting desktop systems equipped with programmable graphics hardware and the other targeting moderately sized multicore systems using pack based ray tracing Finally Christof Rezk Salama reviews state of the art strategies for the assignment of visual parameters in scientific visualization systems He explains the process of mapping abstract data values into visual based on transfer functions clarifies the terms of pre and postclassification and introduces the state of the art user interfaces for the design of transfer functions

Human Behavioral Ecology Jeremy Koster, Brooke Scelza, Mary K. Shenk, 2024-03-14 Human behavioral ecology HBE applies the principles of evolutionary theory and optimisation to the study of human behavioural and cultural diversity Among other things HBE attempts to explain variation in behaviour as adaptive solutions to the competing life history demands of growth development reproduction parental care and mate acquisition This book is a comprehensive introduction to the theoretical orientation and specific findings of HBE It consolidates the insights of evolution and human behaviour into a single volume that reflects the current state and future of the field It brings together leading scholars from across the evolutionary social sciences to provide a comprehensive and thought provoking review of the state of the topic Throughout the authors explain the latest developments in theory and highlight critical debates in the literature while also engaging readers with ethnographic insights and field based studies that remain at the core of human behavioral ecology

Genetic and Cultural Evolution of Cooperation Peter Hammerstein, 2003 Table of contents

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web observe the relevant information in the instruction manual for all actions involving switchgear and switchboards danger

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